

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexascins, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,338	06/03/2005	Andreas Goeke	102790-194(30062 US)	2948
27389 NORRIS MC	7590 07/22/200 LAUGHLIN & MARC		EXAMINER	
875 THIRD AVE			PEPITONE, MICHAEL F	
18TH FLOOR NEW YORK.			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			07/22/2009	DADED

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/534,338 GOEKE, ANDREAS Office Action Summary

omoorionon ouninary	Examiner	Art Unit					
	MICHAEL PEPITONE	1796					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of inne may be available under the provisions of 37 CPR 1.15 If NO period for reply is a specified above, the maximum statutory period to reply with the set or extended period for reply with 2 pt statute. Any reply received by the Office later than three months after the mailing earned patter term adjustment. See 37 CPR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 09 April 2008.							
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 1 and 3-8 is/are rejected.							
7)⊠ Claim(s) <u>2 and 9-14</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).					
 Certified copies of the priority documents 	s have been received.						
Certified copies of the priority documents	Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	:d.					
Attachment(s)							

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Arricamation Disclosure Statement(s) (PTO-6505) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. ___ 5) Notice of Informal Patent Application. Paper No(s)/Mail Date 6/6/05, 5/10/05, 8/9/06. 6) Other: PTOL-326 (Rev. 08-06) Part of Paper No./Mail Date 20080715 Office Action Summary

Application/Control Number: 10/534,338 Page 2

Art Unit: 1796

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of species (i) {the bond between C_1 and C_2 is a single bond} in the reply filed on 4/9/08 is acknowledged. The traversal is on the ground(s) that a single search could be carried out for both species. This is not found persuasive because the single bond species {species (i)} also contains at least one cycloalkane ring, which would require different search protocol from the double bone species {species (ii)}.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-4, and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Köhler et al. (US 5,387,718).

Regarding claim 1: Köhler et al. teaches alkylphenyl alkyl thioethers having the general formula:

Application/Control Number: 10/534,338

Art Unit: 1796

where U represents O or S; and

R₁-R₆ each independently represent an alkyl or aryl group, but R₁-R₅ may each independently represent a functional group other than these, including, e.g., but not limited to, —COOR, —NO₂, —NH₂, —O—CH₂—CH₂—OH, —OH, —CHO, or -halogen: further

R₁-R₅ may be bridged by suitable bifunctional substituents, such as, e.g., —(CH₂)_x—, or —(CH₂)_x—, or —(CH₂)_x—, where Z represents a hetero atom; x=0-7, and y=0-7), or preferably unsaturated substituents such as are characteristic of anellated ring systems, e.g. (but not limited to) naphthyl, phenanthryl, anthracenyl, quinolyl, isoquinolyl, or indolyl.

(1:15-42); wherein U=S,

 R_0 =Me, R_3 =alkyl having a fused $C_{0.7}$ cycloalkyl ring R_1 = R_2 = R_4 = R_5 =H (2:60-67; 3:6-12; 4:48-46; 6:50-59).

The Office realizes that all the claimed effects or physical properties are not positively stated by the reference. However, the reference teaches all of the claimed reagents. Therefore, the claimed effects and physical properties, i.e. spicy and anisic odor notes, would implicitly be achieved by a composition with all the claimed ingredients. If it is the applicants' position that this would not be the case: (1) evidence would need to be presented to support applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties and effects with only the claimed ingredients.

Application/Control Number: 10/534,338

Art Unit: 1796

Regarding claims 3-4 and 6-7: Köhler et al. teaches alkylphenyl alkyl thioethers as fragrances [instant claims 3-4] (5:42-45) and stabilizers for oils used in food and feed [instant claims 6-7] (5:42-45).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Köhler et al. (US 5,387,718).

Regarding claim 8: Köhler et al. teaches alkylphenyl alkyl thioethers having the general formula:

where U represents O or S; and

R₁-R₆ each independently represent an alkyl or aryl group, but R₁-R₅ may each independently represent a functional group other than these, including, e.g., but not limited to, —COOR, —NO₂, —NH₂, —O—CH₂—CH₂—OH, —OH, —CHO, or -halogen: further

R₁-R₅ may be bridged by suitable bifunctional substituents, such as, e.g., —(CH₂)_x—, or —(CH₂)_x—, or —(CH₂)_x—(CH₂)_y— (where Z represents a hetero atom x=0-7, and y=0-7), or preferably unsaturated substituents such as are characteristic of anellated ring systems, e.g. (but not limited to) naphthyl, phenanthryl, anthracenyl, quinolyl, isoquinolyl, or indolyl.

(1:15-42); wherein U=S.

 R_6 =Me, R_3 =alkyl having a fused $C_{0.7}$ cycloalkyl ring R_1 = R_2 = R_4 = R_5 =H (2:60-67; 3:6-12; 4:48-46; 6:50-59).

Art Unit: 1796

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Köhler et al. (US 5.387,718) as applied to claim 4 above, and further in view of Grab et al. (EP 1264547).

Regarding claim 5: Köhler et al. renders the basic composition obvious [as set forth above with respect to claim 4].

Köhler et al. does not teach household product containing alkylphenyl alkyl thioethers. However, Grab et al. teaches flavor and fragrance compositions {household products} containing 1-mercapto-1-phenylalkanes which have a natural spicy character (¶ 1-2). Köhler et al. and Grab et al. are analogous art because they are concerned with a similar technical difficulty, namely the preparation of spicy fragrances composed of aryl thioethers. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined household products containing spicy fragrances composed of aryl thioethers, as taught by Grab et al. in the invention of Köhler et al., and would have been motivated to do so since Grab et al. suggests that such aryl thioethers provide household products with a clear natural spicy character without any attendant dominant roasted note or accompanying pungent and putrid notes (¶ 5), and is an equivalent alternative means of providing spicy fragrances composed of aryl thioethers.

Allowable Subject Matter

Claims 2 and 9-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/534,338

Art Unit: 1796

The following is a statement of reasons for the indication of allowable subject matter: Köhler et al. does not specifically disclose the 1-cyclo {C₃₋₆}alkylmethyl -4-methylsulfanyl-benzenes of instant claims 2 and 9. Black et al. (US 6,222,048) discloses cyclopentyl-(4-(methylthio)phenyl)-methanone, prepared by a Friedel-Crafts acylation of thioanisole with cyclopentanecarbonyl chloride {precursor to 1-cyclopentylmethyl -4-methylsulfanyl-benzene}, but there would be no motivation to reduce the ketone to afford 1-cyclopentylmethyl -4-methylsulfanyl-benzene.

The prior art made of record and not relied upon is considered pertinent to applicants' disclosure. See attached form PTO-892.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PEPITONE whose telephone number is (571)270-3299. The examiner can normally be reached on M-F, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/534,338 Page 7

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MARK EASHOO, Ph.D./ Supervisory Patent Examiner, Art Unit 1796 18-Jul-08 MFP 15-July-08